

**Commonwealth of Kentucky  
Natural Resources and Environmental Protection Cabinet  
Department for Environmental Protection  
Division for Air Quality  
803 Schenkel Lane  
Frankfort, Kentucky 40601  
(502) 573-3382**

**Title V  
AIR QUALITY PERMIT  
Issued under 401 KAR 52:020**

**Permittee Name:** Holley Performance Products Inc  
**Mailing Address:** 1801 Russellville Rd, P.O. Box 10360  
Bowling Green, Kentucky, 42102-7360

**Source Name:** Same as above  
**Mailing Address:** Same as above

**Source Location:** Same as above

**Permit Number:** V-03-053  
**Log Number:** 50716(F921)  
**Review Type:** Operating  
**Source ID #:** 21-227-00008

**Regional Office:** Bowling Green Regional Office  
1508 Westen Avenue  
Bowling Green, KY 42104-3356  
(270) 746-7475

**County:** Warren

**Application  
Complete Date:** November 26, 2003  
**Issuance Date:**  
**Revision Date:**  
**Expiration Date:**

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**John S. Lyons, Director  
Division for Air Quality**

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<b>Rev #</b>	<b>Permit type</b>	<b>Log #</b>	<b>Complete Date</b>	<b>Issuance Date</b>	<b>Summary of Action</b>
<b>----</b>	<b>Initial Issuance</b>	<b>50716</b>	<b>11/26/03</b>		<b>Initial Issuance</b>

## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and received a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

### 01(17) 29 Carburetor Test Stands and 1 Masterflow Test Stand

#### Description:

- i. The test stands are used to test new and reconditioned carburetors. Incidental testing is conducted throughout the facility on carburetors and other parts using mineral spirits.
- ii. The solvents used for testing = Research Solvent H.P. 917 and mineral spirits.
- iii. All the test stands are vented to a single stack.
- iv. Maximum rated output capacity = 140 pieces per hour
- v. Process Equipment = Holley Built Test Stands
- vi. Construction Commenced = 17 test stands in 1990 and 13 test stands in December, 2003
- vii. No control equipment.

#### APPLICABLE REGULATIONS:

401 KAR 63:021 – Existing sources emitting toxic air pollutants

#### 1. Operating Limitations:

- i. Total material usage and hours of operation shall be limited so as not to exceed the emission limitations listed in Emission Limitations section.
- ii. H.P. 917 solvent usage + mineral spirits usage shall not exceed 101.28 lbs/hour and 202.56 tons/year.
- iii. Maximum operating hours = 4000 hours/year.
- iv. Maximum carburetor throughputs/inputs shall not exceed 140 pieces/hour and 560,000 pieces/year.

#### Compliance Demonstration Method\*:

	<i>Unit</i>	<i>Demonstration Method</i>
H.P. 917 + Mineral Spirit	lbs/hr	Total solvents usage in a month (lbs) / total hours of operation in that month
	tons/year	Sum of monthly solvents usage (lbs) for 12-month rolling / 2000 lbs/ton
Carburetor throughput	pieces/hour	Total throughput in a month (pieces) / total hours of operation in that month
	pieces/year	Sum of monthly throughput for 12-month rolling

#### 2. Emission Limitations:

Plant-wide emission limitations (See Section D).

#### Compliance Demonstration Method\*:

<i>Pollutant</i>	<i>Unit</i>	<i>Demonstration Method</i>
Total VOC	tons/month	Emission = total solvents usage in a month (tons)
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling

## **SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**3. Testing Requirements:**

See Section D for specific and/or general testing requirements.

**4. Specific Monitoring Requirements:**

The permittee shall monitor:

- i. Solvents usage rate.
- ii. Throughput/input of pieces involved in testing.
- iii. Hours of operation.
- iv. VOC emissions.

See Section F for specific and/or general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

The permittee shall keep records of:

- i. Daily - Solvents usage, hours of operation, and throughputs/inputs of pieces.
- ii. Monthly – Solvents usage (lbs/hr and tons/month), hours of operation, throughputs/inputs of pieces, and VOC emissions (tons/month).
- iii. Yearly – Solvents usage (tons/year), hours of operations, throughputs/inputs of pieces, and VOC emissions (tons/year).
- iv. H.P. 917 solvent and Mineral Spirits Material Safety Data Sheet at all times.

See Section F for specific and/or general record keeping requirements.

**6. Specific Reporting Requirements:**

The permittee shall submit records specified in Specific Recordkeeping Requirements section semi-annually.

See Section F for specific and/or general reporting requirements.

**7. Specific Control Equipment Operating Conditions:**

None.

**8. Alternate Operating Scenarios:**

None.

\* If recorded usage is in gallon,

- i. To convert to lbs = Solvents usage in gallon x 6.51 lbs/gal
- ii. To convert to ton = (Solvents usage in gallon x 6.51 lbs/gal) / 2000 lbs/ton

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****02(1) Carbonitride Heat Treating****Description:**

- i. One Dow Furnace is used to treat steel parts. This unit is a controlled atmosphere furnace that uses cracked natural gas to generate heat and an endothermic atmosphere. The cracked natural gas has a higher carbon monoxide concentration (approximately 20%) than regular natural gas. In addition, ammonia is used in this process to generate nitrogen (resulting in approximately 10% of the ammonia being emitted as NO<sub>x</sub>)
- ii. The Dow Furnace has a maximum rated capacity of 0.6 mmBTU/hr.
- iii. Installation Date = 1970
- iv. No control equipment.

**APPLICABLE REGULATIONS:**

401 KAR 61:020 – Existing Process Operations

**1. Operating Limitations:**

- i. Total material usage and hours of operation shall be limited so as not to exceed the emission limitations listed in Emission Limitations section.

**2. Emission Limitations:**

- i. Plant-wide emission limitations (See Section D)
- ii. For particulate matter (PM) emissions from a control device or stack, no person shall cause, suffer, allow or permit the emission into the open air to exceed 2.58 lbs/hr. [401 KAR 61:020, Section 3(2)(a)]
- iii. Visible emissions shall not equal or exceed 40 percent opacity [401 KAR 61:020, Section 3(a)]

**Compliance Demonstration Method:**

<i>Pollutant</i>	<i>Unit</i>	<i>Demonstration Method</i>
VOC	tons/year	Natural gas usage rate (mmscf/hr) x 5.5 lbs/mmescf x hours of operation per year / 2000 lbs/ton
Particulate Matter	lbs/hr	Natural gas usage rate (mmscf/hr) x 7.6 lbs/mmescf

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**3. Testing Requirements:**

See Section D for specific and/or general testing requirements.

**4. Specific Monitoring Requirements:**

The permittee shall monitor:

- i. Natural gas usage rate.
- ii. Hours of operation.
- iii. VOC emissions.

See Section F for specific and/or general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

The permittee shall keep records of:

- i. Daily – Hours of operation.
- ii. Monthly – Hours of operation, and PM emissions (lbs/hr).
- iii. Yearly – Hours of operation and VOC emissions (tons/year).

See Section F for specific and/or general record keeping requirements.

**6. Specific Reporting Requirements:**

The permittee shall submit records specified in Specific Recordkeeping Requirements section semi-annually.

See Section F for specific and/or general reporting requirements.

**7. Specific Control Equipment Operating Conditions:**

None.

**8. Alternate Operating Scenarios:**

None.

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

### 03(11) Iso-Octane Fuel Flow Testing

#### Description:

- i. Two units having a constant flow of iso-octane (2,2,4-Trimethylpentane) to perform QA/QC testing on various products.
- ii. Installation Date = 1981
- iii. Process Equipment = Holley Design and Build

#### APPLICABLE REGULATIONS:

401 KAR 63:021 – Existing sources emitting toxic air pollutants

#### 1. Operating Limitations:

- i. Total material usage and hours of operation shall be limited so as not to exceed the emission limitations listed in Emission Limitations section.
- ii. Iso-octane usage shall not exceed 1.9 lbs/hr and 3.8 tons/year.
- iii. Maximum operating hours = 4000 hours/year.

#### Compliance Demonstration Method\*:

	<i>Unit</i>	<i>Demonstration Method</i>
Iso-Octane	lbs/hr	Total usage in a month (lbs) / total hours of operation in that month
	tons/year	Sum of monthly usage (lbs) for 12-month rolling / 2000 lbs/ton

#### 2. Emission Limitations:

- i. Plant-wide emission limitations (See Section D).

#### Compliance Demonstration Method\*:

<i>Pollutant</i>	<i>Unit</i>	<i>Demonstration Method</i>
2,2,4 - Trimethylpentane (HAP & VOC)	tons/month	total solvents usage in a month (tons) x 99.8/100
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling



## **SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**3. Testing Requirements:**

See Section D for specific and/or general testing requirements.

**4. Specific Monitoring Requirements:**

The permittee shall monitor:

- i. Iso-Octane usage rate.
- ii. Hours of operation.
- iii. VOC emissions.

See Section F for specific and/or general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

The permittee shall keep records of:

- i. Daily – Iso-Octane usage, and hours of operation.
- ii. Monthly – Iso-Octane usage (lbs/hr and tons/month), hours of operation, and VOC emissions (tons/month).
- iii. Yearly – Iso-Octane usage (tons/year), hours of operations, and VOC emissions (tons/year).
- iv. Iso-Octane Material Safety Data Sheet at all times.

See Section F for specific and/or general record keeping requirements.

**6. Specific Reporting Requirements:**

The permittee shall submit records specified in Specific Recordkeeping Requirements section semi-annually

See Section F for specific and/or general reporting requirements.

**7. Specific Control Equipment Operating Conditions:**

None.

**8. Alternate Operating Scenarios:**

None.

\* If recorded usage is in gallon,

- i. To convert to lbs = Solvents usage in gallon x 5.81 lbs/gal
- ii. To convert to ton = (Solvents usage in gallon x 5.81 lbs/gal) / 2000 lbs/ton

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****04(16)                      Sludge Dehydration System****Description:**

- i. This system is used to dewater sludge from the wastewater treatment process prior to landfill disposal. Installation date = October 30, 1996.
- ii. 2 natural gas burners with a maximum rated capacity of 0.225 mmBTU/hr each are used to generate heat.
- iii. Process Equipment = Sludgemaster III, Fenton Company.
- iv. Control equipment for Particulate Matter = Cyclone with 85% control efficiency.

**APPLICABLE REGULATIONS:**

401 KAR 59:010 – New Process Operations

**1.      Operating Limitations:**

- i. Total material usage and hours of operation shall be limited so as not to exceed the emission limitations listed in Emission Limitations section.
- ii. Sludge processing rate shall not exceed 335 tons/year.
- iii. Maximum operating hours = 6000 hours/year.

**Compliance Demonstration Method:**

	<i>Unit</i>	<i>Demonstration Method</i>
Sludge Processing Rate	tons/year	Sum of monthly sludge processed (tons) for 12-month rolling

**2.      Emission Limitations:**

- i. Plant-wide emission limitations (See Section D)
- ii. Hourly particulate matter (PM) emission, as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 2.34 lbs/hr. [401 KAR 59:010, Section 3(2)]
- iii. Visible emissions shall not equal or exceed 20 percent opacity [401 KAR 59:010, Section 3(2)]

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Compliance Demonstration Method:**

<b><i>Pollutant</i></b>	<b><i>Unit</i></b>	<b><i>Demonstration Method</i></b>
VOC (Sludge System)	tons/year	(Sludge processed (tons) for 12-month rolling x 0.5 lbs/ton) / 2000 lbs/ton
VOC (each burner)	tons/year	Natural gas usage rate (mmscf/hr) x 5.5 lbs/mmscf x hours of operation per year / 2000 lbs/ton
Total VOC	tons/year	VOC(sludge system) + VOC(each burner)
PM (each burner)	lbs/hr	Natural gas usage rate (mmscf/hr) x 7.6 lbs/mmscf
PM (Sludge system)	lbs/hr	[Monthly sludge processed (tons) x 45.4 lbs/ton] / total hours of operation in that month
Total PM	lbs/hr	PM (each burner) + PM (sludge system)
Chromium III	tons/month	[Monthly sludge processed (tons) x 15.4 lbs/ton] / 2000 lbs/ton
	lbs/hr	[Monthly sludge processed (tons) x 15.4 lbs/ton] / total hours of operation in that month
	tons/year	[Yearly sludge processed (tons/year) x 15.4 lbs/ton] / 2000 lbs/ton

**3. Testing Requirements:**

See Section D for specific and/or general testing requirements.

**4. Specific Monitoring Requirements:**

The permittee shall monitor:

- i. Natural gas usage rate.
- ii. Hours of operation.
- iii. Sludge processed.
- iv. VOC, PM and Chromium III emissions.
- v. To provide reasonable assurance that the visible emission limitations are being met the permittee shall:
  - Perform visual opacity readings on the stack or vent using Reference Method 9 on a semi-annual basis, or more frequently if requested by the Division. Opacity readings shall be conducted while the emission units are in operation.
  - Perform a qualitative visual observation of emissions from each stack/vent on a daily basis and maintain a log of the observation. The log shall note:
    - a. whether any air emissions (except for water vapor) were visible from the vent/stack.
    - b. all emission points from which visible emissions occurred, and
    - c. whether the visible emissions were normal for the process .
  - Determine the opacity of emissions by Reference Method 9 if abnormal visible emissions from any stack/vent are observed.

See Section F for specific and/or general monitoring requirements.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Specific Recordkeeping Requirements:**

The permittee shall keep records of:

- i. Monthly – Hours of operation, sludge processed (tons/month), natural gas usage, VOC, PM and Chromium III emission calculation (lbs/hr and tons/month).
- ii. Yearly – Hours of operation, sludge processed (tons/year) VOC, PM and Chromium III emissions (tons/year).

See Section F for specific and/or general record keeping requirements.

**6. Specific Reporting Requirements:**

The permittee shall submit records specified in Specific Recordkeeping Requirements section semi-annually.

See Section F for specific and/or general reporting requirements.

**7. Specific Control Equipment Operating Conditions:**

None.

**8. Alternate Operating Scenarios:**

None.

**REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****05(INS16, 20)****2 Branson Ultrasonic Degreasers & 1 Aqueous Ultrasonic Cleaner****Description (2 Branson Ultrasonic Degreasers):**

- i. The Branson Ultrasonic degreasers are used to clean parts in production.
- ii. Non-halogenated solvent used = Nu-Tri-Clean which is 100% volatile and contains no chlorinated or chlorofluorinated chemicals.
- iii. No control equipment.
- iv. Installation date = 1988 and 1998

**Description (1 Aqueous Ultrasonic Cleaner):**

- i. This equipment utilizes ultrasonic frequencies in conjunction with a phosphate based cleaner to clean castings and small parts.
- ii. Non-halogenated solvent used = SOLEN 902
- iii. No control equipment.
- iv. Proposed installation date = January, 2004

**APPLICABLE REGULATIONS:**

401 KAR 59:185 – New Solvent Metal Cleaning Equipment

**1. Operating Limitations:**

- i. Total material usage and hours of operation shall be limited so as not to exceed the emission limitations listed in Emission Limitations section.
- ii. Nu-Tri-Clean usage rate shall not exceed 0.73 lbs/hr (0.065 gals/hr) and 1.46 tons/yr (260 gals/yr).
- iii. SOLEN 902 usage rate shall not exceed 30 gals/year.
- iv. Maximum operating hours = 4000 hours/year.

**401 KAR 59:185, Section 4 – Cold Cleaners:**

- v. The cleaner shall be equipped with a cover. If the solvent volatility is greater than fifteen (15) mm Hg measured at 100°F or is the solvent is agitated or heated, then the cover shall be designed so that it can be easily operated with one (1) hand.
- vi. The cleaner shall be equipped with a drainage facility so that solvent that drains off parts removed from the cleaner will return to the cleaner. If the solvent volatility is greater than thirty-two (32) mm Hg measured at 100°F then the drainage facility shall be internal so that parts are enclosed under the cover while draining. The drainage facility may be external if the cabinet determines that an internal type cannot fit into the cleaning system.
- vii. A permanent, conspicuous label, summarizing the operating requirements specified in (x) shall be installed on or near the cleaner.
- viii. If used, the solvent spray shall be fluid stream (not a fine, atomized or shower type spray) and at a pressure which does not cause excessive splashing.
- ix. If the solvent volatility is greater than thirty-two (32) mm Hg measure at 100°F or if the solvent is heated above 120°F, then one of the following control devices shall be

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

used:

- a. Freeboard that gives a freeboard ratio greater than or equal to seven-tenths (0.7).
  - b. Water cover (solvent shall be insoluble in and heavier than water).
  - c. Other systems of equivalent control, such as a refrigerated chiller or carbon adsorption.
- x. Operating Requirements:
- a. Waste solvent shall not be disposed of or transferred to another party so that greater than twenty (20) percent by weight of the waste solvent can evaporate into the atmosphere. Waste solvent shall be stored only in covered containers.
  - b. Degreaser cover shall be closed if not handling parts in the cleaner.
  - c. Cleaned parts shall be drained until dripping ceases (fifteen (15) seconds is usually necessary).
- xi. Any cold cleaners shall be exempted from requirements in (v)-(x) if the following criteria are met:
- a. The cold cleaner shall have a remote solvent reservoir.
  - b. The solvent used in the cold cleaner shall not have a vapor pressure that exceeds thirty-three (33) mm Hg measured at 100°F or be heated above 120°F.
  - c. The sink-like work area shall have an open drain area less than 100 sq cm; and
  - d. Evidence shall be provided that waste solvent shall be stored or properly disposed of with minimal loss due to evaporation.

**Compliance Demonstration Method\*:**

	<i>Unit</i>	<i>Demonstration Method</i>
Nu-Tri-Clean	lbs/hr	Total usage in a month (lbs) / total hours of operation in that month
	tons/year	Sum of monthly usage (lbs) for 12-month rolling / 2000 lbs/ton
SOLEN 902	gals/month	Total usage in a month (gals)
	gals/year	Sum of monthly usage (gals) for 12-month rolling

- xii. The permittee shall follow the Compliance Timetable in Section 7 of 401 KAR 59:185.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations:**

- i. Plant-wide emission limitations (See Section D).

**Compliance Demonstration Method\*:**

<b><i>Pollutant</i></b>	<b><i>Unit</i></b>	<b><i>Demonstration Method</i></b>
Total VOC	tons/month	Total Nu-Tri-Clean usage in a month (tons) + [Total SOLEN 902 usage in a month (gals) x 0.651 lbs/gal / 2000 lbs/ton]
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling

**3. Testing Requirements:**

See Section D for specific and/or general testing requirements.

**4. Specific Monitoring Requirements:**

The permittee shall monitor:

- i. Nu-Tri-Clean and SOLEN 902 usage rate.
- ii. Hours of operation.
- iii. VOC emissions.

See Section F for specific and/or general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

The permittee shall keep records of:

- i. Daily – Nu-Tri-Clean and SOLEN 902 usage, and hours of operation.
- ii. Monthly – Nu-Tri-Clean and SOLEN 902 usage (lbs/hr and tons/month), hours of operation, and VOC emissions (tons/month).
- iii. Yearly – Nu-Tri-Clean usage and SOLEN 902 (tons/year), hours of operations, and VOC emissions (tons/year).
- iv. Nu-Tri-Clean and SOLEN 902 Material Safety Data Sheet at all times.
- v. If any of the cold cleaners is exempted [Operating Limitations, (xi)], a record showing how the criteria are met shall be kept at all times.

See Section F for specific and/or general record keeping requirements.

**6. Specific Reporting Requirements:**

The permittee shall submit records specified in Specific Recordkeeping Requirements section semi-annually

See Section F for specific and/or general reporting requirements.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****7. Specific Control Equipment Operating Conditions:**

None.

8. Alternate Operating Scenarios:

None.

\* If recorded Nu-Tri-Clean usage is in gallon,

- i. To convert to lbs = Solvents usage in gallon x 11.27 lbs/gal
- ii. To convert to ton = (Solvents usage in gallon x 11.27 lbs/gal) / 2000 lbs/ton

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

06[18(a,b,c,d,e,f)]

6 Cold Cleaners

**Description:**

- i. Cold cleaning units utilize un-heated liquid solvent to clean castings, parts, or completed



- carburetors.
- ii. Non-halogenated solvent used = H.P. Carburetor Cleaner and Mineral Spirits which is 100% volatile.
  - iii. No control equipment.
  - iv. Proposed installation date = Permit issuance date + 30 days.

#	Process Description
18(a & b)	2 cold cleaners utilize a stream of H.P. Carburetor Cleaner to clean incoming parts to be reconditioned. Both cold cleaners exhaust through one stack.
18(c)	One cleaner uses spent H.P. Carburetor Cleaner to soak parts. No exhaust.
18(d)	One cleaner in the supercharger area uses a stream of H.P. Carburetor Cleaner to clean supercharger parts. This unit has an exhaust.
18(e)	One cleaner uses a stream of H.P. Carburetor Cleaner to clean import carburetors. This unit has no exhaust.
18(f)	One cleaner is used in the maintenance shop. It utilizes a pump to flow mineral spirits or H.P. Carburetor Cleaner through a brush to clean parts. This unit has no exhaust.

**APPLICABLE REGULATIONS:**

401 KAR 59:185 – New Solvent Metal Cleaning Equipment

**1. Operating Limitations:**

- i. Total material usage and hours of operation shall be limited so as not to exceed the emission limitations listed in Emission Limitations section.
- ii. Total H.P. Carburetor Cleaner usage rate shall not exceed 3.564 lbs/hr and 5.45 tons/year.
- iii. Total Mineral Spirits usage rate shall not exceed 0.836 lbs/hr and 1.28 tons/year.
- iv. Maximum operating hours = 3060 hours/year.

**401 KAR 59:185, Section 4 – Cold Cleaners:**

- v. The cleaner shall be equipped with a cover. If the solvent volatility is greater than fifteen (15) mm Hg measured at 100°F or is the solvent is agitated or heated, then the cover shall be designed so that it can be easily operated with one (1) hand.
- vi. The cleaner shall be equipped with a drainage facility so that solvent that drains off parts removed from the cleaner will return to the cleaner. If the solvent volatility is greater than thirty-two (32) mm Hg measured at 100°F then the drainage facility shall be internal so that parts are enclosed under the cover while draining. The drainage facility may be external if the cabinet determines that an internal type cannot fit into the cleaning system.
- vii. A permanent, conspicuous label, summarizing the operating requirements specified in (x) shall be installed on or near the cleaner.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- viii. If used, the solvent spray shall be fluid stream (not a fine, atomized or shower type spray) and at a pressure which does not cause excessive splashing.
- ix. If the solvent volatility is greater than thirty-two (32) mm Hg measure at 100°F or if the solvent is heated above 120°F, then one of the following control devices shall be used:

- a. Freeboard that gives a freeboard ratio greater than or equal to seven-tenths (0.7).
- b. Water cover (solvent shall be insoluble in and heavier than water).
- c. Other systems of equivalent control, such as a refrigerated chiller or carbon adsorption.
- x. Operating Requirements:
  - a. Waste solvent shall not be disposed of or transferred to another party so that greater than twenty (20) percent by weight of the waste solvent can evaporate into the atmosphere. Waste solvent shall be stored only in covered containers.
  - b. Degreaser cover shall be closed if not handling parts in the cleaner.
  - c. Cleaned parts shall be drained until dripping ceases (fifteen (15) seconds is usually necessary).
- xi. Any cold cleaners shall be exempted from requirements in (v)-(x) if the following criteria are met:
  - a. The cold cleaner shall have a remote solvent reservoir.
  - b. The solvent used in the cold cleaner shall not have a vapor pressure that exceeds thirty-three (33) mm Hg measured at 100°F or be heated above 120°F.
  - c. The sink-like work area shall have an open drain area less than 100 sq cm; and
  - d. Evidence shall be provided that waste solvent shall be stored or properly disposed of with minimal loss due to evaporation.

**Compliance Demonstration Method\*:**

	<i>Unit</i>	<i>Demonstration Method</i>
H.P. Carburetor Cleaner	lbs/hr	Total usage in a month (lbs) / total hours of operation in that month
	tons/year	Sum of monthly usage (lbs) for 12-month rolling / 2000 lbs/ton
Mineral Spirit	lbs/hr	Total usage in a month (lbs) / total hours of operation in that month
	tons/year	Sum of monthly usage (lbs) for 12-month rolling / 2000 lbs/ton

- xii. The permittee shall follow the Compliance Timetable in Section 7 of 401 KAR 59:185.

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

### 2. Emission Limitations:

Plant-wide emission limitations (See Section D).

**Compliance Demonstration Method\*:**

<i>Pollutant</i>	<i>Unit</i>	<i>Demonstration Method</i>
Total VOC	tons/month	Total H.P. Carburetor Cleaner usage in a month (tons) + Total Mineral Spirit usage in a month (tons)
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling

**3. Testing Requirements:**

See Section D for specific and/or general testing requirements.

**4. Specific Monitoring Requirements:**

The permittee shall monitor:

- i. H.P. Carburetor Cleaner and Mineral Spirits usage rate.
- iii. Hours of operation.
- iv. VOC emissions.

See Section F for specific and/or general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

The permittee shall keep records of:

- i. Daily – H.P. Carburetor Cleaner and Mineral Spirits usage, and hours of operation.
- ii. Monthly – H.P. Carburetor Cleaner and Mineral Spirits usage (lbs/hr and tons/month), hours of operation, and VOC emissions (tons/month).
- iii. Yearly – H.P. Carburetor Cleaner and Mineral Spirits (tons/year), hours of operations, and VOC emissions (tons/year).
- iv. H.P. Carburetor Cleaner and Mineral Spirits Material Safety Data Sheet at all times.
- v. If any of the cold cleaners is exempted [Operating Limitations, (xi)], a record showing how the criteria are met shall be kept at all times.

See Section F for specific and/or general record keeping requirements.

**6. Specific Reporting Requirements:**

The permittee shall submit records specified in Specific Recordkeeping Requirements section semi-annually

See Section F for specific and/or general reporting requirements.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**7. Specific Control Equipment Operating Conditions:**

None.

**8. Alternate Operating Scenarios:**

None.

\* If recorded H.P. Carburetor Cleaner usage is in gallon,

- i. To convert to lbs = Solvents usage in gallon x 7.02 lbs/gal
- ii. To convert to ton = (Solvents usage in gallon x 7.02 lbs/gal) / 2000 lbs/ton

If recorded mineral spirits usage is in gallon,

- i. To convert to lbs = Solvents usage in gallon x 6.343 lbs/gal
- ii. To convert to ton = (Solvents usage in gallon x 6.343 lbs/gal) / 2000 lbs/ton

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**07(12, 13, 14, 15)**

**Plating Operations**

**Description:**

#	Process Description	Tank No.	Chemical Used	Maximum Operating Hours	Maximum Hourly Rate (lbs/hr)	Maximum Yearly Rate (tons/yr)
12	Adjamatic/ Deoxidizer	1 - Adjamatic	Aquaeease	6000	0.04	0.183
		2 - Adjamatic	Aquaeease	6000	2.35	10.298
		8 - Adjamatic	Dascobond Chromate Dip 09240	6000	0.2	0.854
13	Plating	5 - Udyllite 32	Muriatic Acid	6000	9	39.432
		3 - Premium	Cleaner Sel 321 Techmatic + Techmatic Addictive EA	6000	0.17	0.753
		4 - Premium	Duchrome 154L	6000	0.08	0.317
		5 - Dye Line	Black Chromate Dye (Clariant Powder)	6000		0.0065
		12 - Brass Cleaning	HCl	6000	5.07	22.204
14	Udyllite	1 - Udyllite 32	Techmatic S-224 Soap	6000	0.5	2.19
		2 - Udyllite 32	Techmatic E-161	6000	0.57	2.482
		9 - Udyllite 32	Caustic + Zinc + ALK2V3 Starter + BRT Brightener ALK2V3	6000	2.48	10.879
		13 - Udyllite 32	Duchrome 154L	6000	0.08	0.317
15	Bright DIP/DYE, DMO	1 - Premium	Caustic + Zinc + ALK2V3 Starter + Mirage ACC Brightener	6000	2.48	10.882
		6 - Premium	Laquer 2H	6000	0.03	0.131
		1 - Brass Cleaning	Chromate Iridite 80	6000		0.1412
		3 - Brass Cleaning	Nitric Acid	6000	0.17	0.726
		11 - Brass Cleaning	Duchrome 154L	6000	0.08	0.317
		3 - Dye Line	Olive Drab Dichromate I&II	6000	0.11	0.47
		1 - DMP Manual	Ultimate 2800 oil/wax	6000	0.01	0.038
		2 - DMP Manual	Techphos 3000	6000	0.05	0.2
		3 - DMP Manual	Techphos 400NF	6000	0.05	0.2
		5 - DMP Manual	Nickel Pentrate	6000	0.24	1.029
		6 - DMP Manual	49 NC Soap	6000	0.5	2.19
		9 - DMP Manual	HCL	6000	5.07	22.204
		11 - DMP Manual	Nickel Pentrate	6000	0.24	1.029
		14 - DMP Auto	Lab oil 72D	6000	0.01	0.032
			Caustic + Zinc + ALK2V3 Starter + ALK2V Brightener BRT	6000	2.48	10.879

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- i. There are a total of 8 plating lines that emit through four exhaust points.
- ii. Emission point 12 – Adjamatic Line and Deoxidize, with Scrubber.
- iii. Emission point 13 – Certain tanks from Brass Cleaning, Udyllite, Deoxidize, DMP Automatic, Premium Line and Dye line, with Acid Scrubber.

- iv. Emission point 14 – The Udyllite line, with Chromate/Zinc Scrubber.
- v. Emission point 15 – Brass Cleaning, DMP Automatic, Premium Line and Dye lines, with Scrubber.
- vi. Each line consists of a series of 5 to 15 tanks with cleaners, acids, dyes, rinse tanks, and plating baths depending on the preferred surface. Most of the plating is chemical plating. While chrome is present in some of the raw materials, no current is introduced into any of the baths that contain chrome.
- vii. A series of plastic or metal parts are arranged on hangers and dipped into the appropriate series of baths, and for the duration of time specified in the formula for the individual coating. Parts are left dry after plating and before assembly.

**APPLICABLE REGULATIONS:**

401 KAR 59:010 – New Process Operations

401 KAR 63:021 – Existing sources emitting toxic air pollutants

**1. Operating Limitations:**

- i. Total material usage and hours of operation shall not exceed the limitations specified in the description.

**Compliance Demonstration Method\*:**

	<i>Unit</i>	<i>Demonstration Method</i>
Each chemical used	lbs/hr	Total usage in a month (lbs) / total hours of operation in that month
	tons/year	Sum of monthly usage (lbs) for 12-month rolling / 2000 lbs/ton

**2. Emission Limitations:**

- i. Plant-wide emission limitations (See Section D)
- ii. Hourly particulate matter (PM) emission, as measured by Reference Method 5, Appendix A, 40 CFR 60, averaged over three hours shall not exceed 2.34 lbs/hr. [401 KAR 59:010, Section 3(2)]
- iii. Visible emissions shall not equal or exceed 20 percent opacity [401 KAR 59:010, Section 3(2)]

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Compliance Demonstration Method\*:**

<b>Pollutant</b>	<b>Unit</b>	<b>Demonstration Method</b>
For each pollutant in each tank	tons/month	Total chemical usage in a month (tons) x emission factor (lbs/ton)
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling
Particulate Matter (PM) emission in each tank	lbs/hr	[Total chemical usage in a month (tons) x emission factor (lbs/ton)] / total hours of operation in that month
Zinc Oxide emission in each tank	lbs/hr	[Total chemical usage in a month (tons) x emission factor (lbs/ton)] / total hours of operation in that month
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling
Sulfuric Acid emission in each tank	lbs/hr	[Total chemical usage in a month (tons) x emission factor (lbs/ton)] / total hours of operation in that month
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling
Sodium Hydroxide emission in each tank	lbs/hr	[Total chemical usage in a month (tons) x emission factor (lbs/ton)] / total hours of operation in that month
	tons/year	Sum of the monthly emissions (tons) for 12-month rolling

Emission factors shall be obtained from the tables below.

<b>#</b>	<b>Process Description</b>	<b>Tank Designation</b>	<b>Pollutants</b>	<b>Emission Factor (lbs/ton)</b>
12	Adjamatic/Deoxidizer	1 - Adjamatic	Total PM	30
		2 - Adjamatic	Total PM	30
		8 - Adjamatic	Sulfuric Acid	10
			Total PM	65
13	Plating	5 - Udyllite 32	PM	37
		3 - Premium	Sodium Hydroxide	20
			Total PM	55
		4 - Premium	Sulfuric Acid	2.42
			Total PM	30.15
		5 - Dye Line	Total PM	100
		12 - Brass Cleaning	Total PM	32.5
14	Udyllite	1 - Udyllite 32	Sodium Hydroxide	50
			Total PM	50
		2 - Udyllite 32	Sodium Hydroxide	50
			Total PM	50
		9 - Udyllite 32	Sodium Hydroxide	50
			Total PM	150.65
		13 - Udyllite 32	Sulfuric Acid	2.42
			Total PM	30.15

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#	Process Description	Tank Designation	Pollutants	Emission Factor (lbs/ton)
15	Bright DIP/DYE, DMO	1 - Premium	Sodium Hydroxide	50
			Total PM	155
			VOC	1930
		6 - Premium	VOC	1584
		1 - Brass Cleaning	Sulfuric Acid	4
			Total PM	46
		3 - Brass Cleaning	Total PM	67
		11 - Brass Cleaning	Sulfuric Acid	2.42
			Total PM	30.15
		3 - Dye Line	Total PM	115
		1 - DMP Manual	VOC	60
		2 - DMP Manual	Zinc Oxide	15
			Total PM	60
		3 - DMP Manual	Zinc Oxide	10
			Total PM	65
		5 - DMP Manual	Sodium Hydroxide	83
			Total PM	94.01
		6 - DMP Manual	Sodium Hydroxide	30
			Total PM	90
		9 - DMP Manual	Total PM	35.2
		11 - DMP Manual	Sodium Hydroxide	83
			Total PM	94.01
		14 - DMP Manual	Total PM	95.1
			VOC	100
		14 - DMP Auto	Sodium Hydroxide	50
			Total PM	150.65

**3. Testing Requirements:**

See Section D for specific and/or general testing requirements.

**4. Specific Monitoring Requirements:**

The permittee shall monitor:

- i. Chemical usage rate.
- ii. Hours of operation.
- iii. PM, VOC, Zinc Oxide, Sodium Hydroxide and Sulfuric Acid emissions.

See Section F for specific and/or general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

The permittee shall keep records of:

- i. Daily – Each chemical usage, and hours of operation.
- ii. Monthly – Each chemical usage (lbs/hr and tons/month) and hours of operation. PM Sulfuric Acid, Sodium Hydroxide and Zinc Oxide emissions (tons/month and lbs/hr). VOC emissions in tons/month.
- iii. Yearly – Each chemical usage (tons/year), hours of operations, VOC, Sulfuric Acid, Sodium Hydroxide and Zinc Oxide emissions in tons/year.
- iv. Each chemical Material Safety Data Sheet at all times.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**



See Section F for specific and/or general record keeping requirements.

**6. Specific Reporting Requirements:**

The permittee shall submit records specified in Specific Recordkeeping Requirements section semi-annually.

See Section F for specific and/or general reporting requirements.

**7. Specific Control Equipment Operating Conditions:**

None.

**8. Alternate Operating Scenarios:**

None.

\* If recorded usage is in gallon,

- i. To convert to lbs = Chemical usage in gallon x Density in lbs/gal
- ii. To convert to ton = (Chemical usage in gallon x Density in lbs/gal) / 2000 lbs/ton

## **SECTION C - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the

permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

#	Description	Raw Material used	Maximum Usage Rate	General Applicable Regulation
1	Boiler (4000 hours/year)	Natural gas	1.8 mmBTU/hr	None
2	11 Space heaters (4000 hours/yr)	Natural gas	0.6 mmBTU/hr each	None
3	7 Grinders with cyclone			401 KAR 59:010
4	5 Space heaters	Natural gas	0.23 mmBTU/hr each	None
5	Space heater	Natural gas	0.13 mmBTU/hr	None
6	2 Space Heaters	Natural gas	0.4 mmBTU/hr each	None
7	Fuel pump test stand (closed loop system)			None
8	3 Thermal Deburring units with cyclone	Metal parts Natural gas	0.5 mmBTU/hr	401 KAR 59:010 None
9	Dow parts washer	Cerfa Klean 5380 Cleaner Natural gas	220 gals/year 0.2 mmBTU/hr	None None
10	6 Parts washers	Kleenapart	2032 lbs/year	None
11	7 Torex polishers (4000 hours/year)	Roto-Brite XL-1270 BIO-Clean D-980 Bio-Clean D-547 Bio-Clean D-326	1.4 gals/hr and 5610 gal/year 0.58 gals/hr and 2310 gal/year 0.06 gals/hr and 220 galyear 0.1 gals/hr and 385 galyear	None None None None
12	Strain drawing of metal parts	Natural gas	612,600 BTU/hr	None
13	Maintenance Welding	Welding Electrode (E-7024)	2 lbs/hr and 2000 lbs/year	401 KAR 63:010
14	AR Industries Model S-4 Shaker	Mineral Spirit	10 gals/week	None
15	2 Heated aqueous washers 2 boilers	Solen 9393 Natural gas	0.47 gals/hr 0.24 mmBTU/hr each	None None
16	One 2-Part Foam process	InstaFill foam	57,000 lbs/year	401 KAR 63:010
17	8 Glass Bead Blasters		31.4 lbs/hr	401 KAR 63:010
18	6 Aqueous Vibratory Cleaners	Solen 9012B	0.725 gals/hr	None
20	Silver Soldering Line	Brazing Paste Brazing Wire	200 ounce/year 6 ounce/year	401 KAR 63:010

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS**

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Volatile Organic Compounds (VOC), Sulfuric Acid, Sodium Hydroxide, Chromium III, and Zinc Oxide emissions, as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
3. Plant-wide VOC emissions shall not exceed 240 tons/year to preclude PSD major source applicability.

Compliance Demonstration Method:

$$VOC = [\sum_i^7 VOC_i] + I.A.$$

Where,  $i = 1, 2, 3, \dots, 7$

$VOC_i$  (tons/year) = VOC emissions from emission point 1 to 7 in Section B

I.A. (tons/year) = VOC emissions from Insignificant Activities = 6.1 tons/year

4. Plant-wide Sulfuric Acid emissions shall not exceed 2.23 lbs/hour and 4.46 tons/year.

Compliance Demonstration Method:

- For each month, the sum of Sulfuric Acid emissions (lbs/hr) in each tank for emission point 6.
- For each year, the sum of monthly Sulfuric Acid emissions (tons/month) in each tank for emission point 6.

5. Plant-wide Sodium Hydroxide emissions shall not exceed 5.16 lbs/hour and 5.16 tons/year.

Compliance Demonstration Method:

- For each month, the sum of Sodium Hydroxide emissions (lbs/hr) in each tank for emission point 6.
- For each year, the sum of monthly Sodium Hydroxide emissions (tons/month) in each tank for emission point 6.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

6. Plant-wide Zinc Oxide emissions shall not exceed 12.5 lbs/hour and 12.5 tons/year.

Compliance Demonstration Method:

- For each month, the sum of Zinc Oxide emissions (lbs/hr) in each tank for emission point 6 + 0.3 lbs/hr (Thermal Deburring emission point).
- For each year, the sum of monthly Zinc Oxide emissions (tons/month) in each tank for emission point 6 + 1.314 tons/year (Thermal Deburring emission point).

7. Plant-wide Chromium III emissions shall not exceed 0.251 lbs/hr and 0.777 tons/year.

Compliance Demonstration Method:

- For each month, Chromium III emissions (lbs/hr) in emission point 4.
- For each year, Chromium III emissions (tons/month) in emission point 4.

**SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS**

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

## **SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS**

1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
  - a. Date, place as defined in this permit, and time of sampling or measurements;
  - b. Analyses performance dates;
  - c. Company or entity that performed analyses;
  - d. Analytical techniques or methods used;
  - e. Analyses results; and
  - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
  - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
  - b. To access and copy any records required by the permit;
  - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b (V )1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

## **SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

6. The semi-annual reports are due by January 30th and July 30th of each year. [Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3\(3\).](#) All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
  - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall submit written notice upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within [30 days](#). Other deviations from permit requirements shall [be included in the semiannual report required by Section F.6](#) [Section 1b (V) 3, 4. of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
  - a. Identification of the term or condition;
  - b. Compliance status of each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent;
  - d. The method used for determining the compliance status for the source, currently and over the reporting period.
  - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

**SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

- f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality  
Bowling Green Regional Office  
1508 Westen Avenue  
Bowling Green, KY 42104

U.S. EPA Region IV  
Air Enforcement Branch  
Atlanta Federal Center  
61 Forsyth St.  
Atlanta, GA 30303-8960

Division for Air Quality  
Central Files  
803 Schenkel Lane  
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.
11. Pursuant to Section VII (3) of the policy manual of the Division for Air Quality as referenced in 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days after the completion of the fieldwork.



**SECTION G - GENERAL PROVISIONS****(a) General Compliance Requirements**

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
  - a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
  - b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
  - c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].
11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.
13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].
14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].
15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

## **SECTION G - GENERAL PROVISIONS (CONTINUED)**

16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
  - (a) Applicable requirements that are included and specifically identified in the permit and
  - (b) Non-applicable requirements expressly identified in this permit.
- (b) Permit Expiration and Reapplication Requirements
  1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
  2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].
- (c) Permit Revisions
  1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
  2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.
- (d) Construction, Start-Up, and Initial Compliance Demonstration Requirements

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, emission points #5 (1 Aqueous Ultrasonic Cleaner), #6 (6 Cold Cleaners), and Insignificant Activities (#15,16,17,18) in accordance with the terms and conditions of this permit.

  1. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

2. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
  - a. The date when construction commenced.
  - b. The date of start-up of the affected facilities listed in this permit.
  - c. The date when the maximum production rate specified in the permit application was achieved.
3. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
4. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or order of the Cabinet.
5. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration (*test*) on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. ***These performance tests must also be conducted in accordance with General Provisions G(d)7 of this permit and the permittee must furnish to the Division for Air Quality's Frankfort Central Office a written report of the results of such performance test***
6. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.
8. Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), at least one month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

9. Pursuant to Section VII 1.(2 and 3) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), if a demonstration of compliance, through performance testing was made at a production rate less than the maximum specified in the application form, then the permittee is only authorized to operate at a rate that is not greater than 110% of the rate demonstrated during performance testing. If and when the facility is capable of operation at the rate specified in the application, compliance must be demonstrated at the new production rate if required by the Division.

(e) Acid Rain Program Requirements

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - a. An emergency occurred and the permittee can identify the cause of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
  - e. This requirement does not relieve the source of other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center  
P.O. Box 3346  
Merrifield, VA, 22116-3346

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
  - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

**SECTION H - ALTERNATE OPERATING SCENARIOS**

None

**SECTION I - COMPLIANCE SCHEDULE**

None